

**BONNEVILLE POWER ADMINISTRATION
TRANSMISSION BUSINESS LINE**

2002 TRANSMISSION AND ANCILLARY SERVICE

RATE SCHEDULES

and

GENERAL RATE SCHEDULE PROVISIONS

INDEX

2002 TRANSMISSION AND ANCILLARY SERVICE

RATE SCHEDULES

and

GENERAL RATE SCHEDULE PROVISIONS

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COMMONLY USED ACRONYMS

AC	Alternating Current
ACS	Ancillary Services and Control Area Services (Rate)
AF	Advance Funding (Rate)
AFUDC	Allowance for Funds Used During Construction
AGC	Automatic Generation Control
aMW	Average Megawatt
ASC	Average System Cost
BOR	U.S. Bureau of Reclamation
BPA	Bonneville Power Administration
Btu	British Thermal Unit
CA	Control Area
CAISO	California Independent System Operator
California PX	California Power Exchange
CAS	Control Area Service
COB	California-Oregon Border
COE	U.S. Army Corps of Engineers
CPTC	Columbia Power Trades Council
CRAC	Cost Recovery Adjustment Clause
CSL	Customer-Served Load
CY	Calendar Year (Jan-Dec)
DC	Direct Current
DOE	Department of Energy
DOI	Department of Interior
DSIs	Direct Service Industrial Customers
EIA	Energy Information Administration
Energy Northwest	Formerly Washington Public Power Supply System Project
F&O	Financial and Operating Reports
FCCF	Fish Cost Contingency Fund
FCRPS	Federal Columbia River Power System
FCRTS	Federal Columbia River Transmission System
FERC	Federal Energy Regulatory Commission
FPT	Formula Power Transmission Rate
FTE	Full-time Equivalent
FY	Fiscal Year (Oct-Sep)
GDP	Gross Domestic Product
GI	Generation Integration
GRSPs	General Rate Schedule Provisions
GSU	Generator Step-Up Transformers
GTA	General Transfer Agreement
GWh	Gigawatthour

HLH	Heavy Load Hours
HNF	Hourly Non-Firm
IDC	Interest During Construction
IE	Eastern Intertie (Rate)
IM	Montana Intertie (Rate)
IOUs	Investor-Owned Utilities
IP	Industrial Firm Power (Rate)
IR	Integration of Resources (Rate)
IS	Southern Intertie (Rate)
ISC	Investment Service Coverage
ISO	Independent System Operator
kcfs	kilo (thousands) of cubic feet per second
kV	Kilovolt (1000 volts)
kVAr	Kilovoltampere Reactive
kW	Kilowatt (1000 watts)
kWh	Kilowatthour
LLH	Light Load Hours
m/kWh	Mills per kilowatthour
MAF	Million Acre Feet
MORC	Minimum Operating Reliability Criteria
MTPL	Monthly Transmission Peak Load
MW	Megawatt (1 million watts)
MWh	Megawatthour
NCD	Network Contract Demand (Service and Rate)
NERC	North American Electric Reliability Council
NF	Nonfirm Energy
NOB	Nevada-Oregon Border
NORM	Non-Operating Risk Model
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NT	Network Integration Transmission (Service and Rate)
NTSA	Non-Treaty Storage Agreement
NWPP	Northwest Power Pool
NWPPC	Northwest Power Planning Council
O&M	Operation and Maintenance
OASIS	Open Access Same-Time Information System
OATT	Open Access Transmission Tariff
OMB	Office of Management and Budget
OY	Operating Year (Aug-Jul)
PA	Public Agency
PBL	Power Business Line
PNCA	Pacific Northwest Coordination Agreement
PNRR	Planned Net Revenues for Risk
PNUCC	Pacific Northwest Utilities Conference Committee

PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration (or, Interconnection)
POR	Point of Receipt
PSW	Pacific Southwest
PTP	Point to Point (Service and Rate)
PUD	Public or People's Utility District
Reclamation	Bureau of Reclamation
RiskMod	Risk Analysis Model (computer model)
RiskSim	Risk Simulation Model
RMS	Remote Metering System
ROD	Record of Decision
RPSA	Residential Purchase Sale Agreement
RRS	Revenue Requirement Study
RTO	Regional Transmission Organization
SCADA	Supervisory Control And Data Acquisition System
Tariff	Open Access Transmission Tariff
TBL	Transmission Business Line
TCH	Transmission Contract Holder
TGT	Townsend-Garrison Transmission (Rate)
TPP	Treasury Payment Probability
TRAP	Transmission Risk Analysis Processor
TRS	Transmission Rate Study
TTSL	Total Transmission System Loading
UIC	Unauthorized Increase Charge
UFT	Use of Facilities (Rate)
USBOR	U.S. Bureau of Reclamation
VOR	Value of Reserves
WEFA	Wharton Econometric Forecasting Associates
WSCC	Western Systems Coordinating Council
WSPP	Western System Power Pool
1CP	One Coincidental Peak
12CP	Twelve Coincidental Peak

SCHEDULE FPT-02.1

FORMULA POWER TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule FPT-96.1 for all firm transmission agreements which provide for application of FPT rates that may be adjusted not more frequently than once a year. This schedule is applicable only to such transmission agreements executed prior to October 1, 1996. It is available for firm transmission of non-Federal power using the Main Grid and/or Secondary System of the Federal Columbia River Transmission System. This schedule is for full-year and partial-year service and for either continuous or intermittent service when firm transmission service is required. For facilities at voltages lower than the Secondary System, a different rate schedule may be specified. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge per kilowatt shall be one-twelfth of the sum of the Main Grid Charge and the Secondary System Charge, as applicable and as specified in the agreement.

A. MAIN GRID CHARGE

The Main Grid Charge per kilowatt shall be the sum of one or more of the following annual charges as specified in the agreement:

1. Main Grid Distance: \$0.0557 per mile
2. Main Grid Interconnection Terminal: \$0.58
3. Main Grid Terminal: \$0.65
4. Main Grid Miscellaneous Facilities: \$3.18

B. SECONDARY SYSTEM CHARGE

The Secondary System Charge per kilowatt shall be the sum of one or more of the following annual charges as specified in the agreement:

1. Secondary System Distance: \$0.5478 per mile
2. Secondary System Transformation: \$5.99
3. Secondary System Intermediate Terminal: \$2.31
4. Secondary System Interconnection Terminal: \$1.64

SECTION III. BILLING FACTORS

Unless otherwise stated in the agreement, the Billing Factor for the rates specified in section II shall be the largest of:

1. The Transmission Demand;
2. The highest hourly Scheduled Demand for the month; or
3. The Ratchet Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary Services that may be required to support FPT transmission service are available under the ACS rate schedule. FPT customers do not pay the ACS charges for Scheduling, System Control and Dispatch Service and Reactive Supply and Voltage Control from Generation Sources Service, because these services are included in FPT service.

B. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C. of the GRSPs.

C. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

SCHEDULE FPT-02.3

FORMULA POWER TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule FPT-96.3 for all firm transmission agreements which provide for application of FPT rates that may be adjusted not more frequently than once every three years. This schedule is applicable only to such transmission agreements executed prior to October 1, 1996. It is available for firm transmission of non-Federal power using the Main Grid and/or Secondary System of the Federal Columbia River Transmission System. This schedule is for full-year and partial-year service and for either continuous or intermittent service when firm transmission service is required. For facilities at voltages lower than the Secondary System, a different rate schedule may be specified. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge per kilowatt shall be one-twelfth of the sum of the Main Grid Charge and the Secondary System Charge, as applicable and as specified in the agreement.

A. MAIN GRID CHARGE

The Main Grid Charge per kilowatt shall be the sum of one or more of the following annual charges as specified in the agreement:

1. Main Grid Distance: \$0.0557 per mile
2. Main Grid Interconnection Terminal: \$0.58
3. Main Grid Terminal: \$0.65
4. Main Grid Miscellaneous Facilities: \$3.18

B. SECONDARY SYSTEM CHARGE

The Secondary System Charge per kilowatt shall be the sum of one or more of the following annual charges as specified in the agreement:

1. Secondary System Distance: \$0.5478 per mile
2. Secondary System Transformation: \$5.99
3. Secondary System Intermediate Terminal: \$2.31
4. Secondary System Interconnection Terminal: \$1.64

SECTION III. BILLING FACTORS

Unless otherwise stated in the agreement, the Billing Factor for the rates specified in section II shall be the largest of:

1. The Transmission Demand;
2. The highest hourly Scheduled Demand for the month; or
3. The Ratchet Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary Services that may be required to support FPT transmission service are available under the APS rate schedule. FPT customers do not pay the ACS charges for Scheduling, System Control and Dispatch Service and Reactive Supply and Voltage Control from Generation Sources Service, because these services are included in FPT service.

B. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C. of the GRSPs.

C. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty specified in section II.B of the GRSPs.

SCHEDULE IR-02

INTEGRATION OF RESOURCES RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule IR-96 and is available for transmission of non-Federal power for full-year firm transmission service and nonfirm transmission service in amounts not to exceed the customer's total Transmission Demand using Federal Columbia River Transmission System Network and Delivery facilities. This schedule is applicable only to Integration of Resource (IR) agreements executed prior to October 1, 1996. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge shall be A or B.

A. BASE RATE

\$1.132 per kilowatt

B. SHORT DISTANCE DISCOUNT (SDD) RATE

For Points of Integration (POI) specified in the IR agreement as being short-distance POIs, for which Network facilities are used for a distance of less than 75 circuit miles, the monthly rate shall be:

$$[0.6 + (0.4 \times \text{transmission distance}/75)] * \$1.132 \text{ per kilowatt}$$

Where:

The transmission distance is the circuit miles between the POI for a generating resource of the customer and a designated Point of Delivery serving load of the customer. Short-distance POIs are determined by BPA after considering factors in addition to transmission distance.

SECTION III. BILLING FACTORS

To the extent that the agreement provides for the customer to be billed for transmission in excess of the Transmission Demand or Total Transmission Demand, as defined in the agreement, at the

Point-to-Point Hourly Nonfirm Rate, such transmission service shall not contribute to the Billing Factor for the IR rate provided that the customer requests such treatment and TBL approves in accordance with the prescribed provisions in the agreement.

The Billing Factor for rates specified in section II shall be the largest of:

1. The annual Transmission Demand, or, if defined in the agreement, the annual Total Transmission Demand;
2. The highest hourly Scheduled Demand for the month; or
3. The Ratchet Demand.

When the Scheduled Demand or Ratchet Demand is the Billing Factor, short-distance POIs shall be charged the Base Rate specified in section II.A for the amount in excess of Transmission Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS-02 Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that may be required to support IR transmission service are available under the ACS rate schedule.

B. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

C. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

D. DELIVERY CHARGE

Customers taking service under this rate schedule are subject to the Delivery Charge specified in section II.A of the GRSPs.

SCHEDULE NT-02 NETWORK INTEGRATION RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule NT-96. It is available to Transmission Customers taking Network Integration Transmission (NT) Service over Federal Columbia River Transmission System Network and Delivery facilities. Terms and conditions of service are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge will be the sum of A and B.

A. BASE CHARGE

\$1.132 per kilowatt per month.

B. TRANSMISSION LOAD SHAPING CHARGE

\$0.326 per kilowatt per month.

SECTION III. BILLING FACTORS

A. BASE CHARGE

1. If no Declared Customer-Served Load (CSL) is specified in the customer's NT Service Agreement, the monthly Billing Factor for the Base Charge specified in section II.A shall be the customer's Network Load on the hour of the Monthly Transmission Peak Load.
2. If an amount of Declared CSL is specified in the customer's NT Service Agreement, the monthly Billing Factor for the Base Charge specified in section II.A shall be a or b:

- a. For the billing month, if the sum of the Actual CSLs occurring during Heavy Load Hours (HLH) is greater than or equal to 60 percent of the Declared CSL multiplied by the number of HLHs in the billing month, the monthly Billing Factor shall be the customer's Network Load on the hour of the Monthly Transmission Peak Load, less Declared CSL.
- b. For the billing month, if the sum of the Actual CSLs occurring during HLH is less than 60 percent of the Declared CSL multiplied by the number of HLHs in the billing month, the monthly Billing Factor shall be the customer's Network Load on the hour of the Monthly Transmission Peak Load. The Billing Factor will be reduced by any megawatts charged the NT Unauthorized Increase Charge under section IV.D. for the month.

Where:

"Declared Customer-Served Load (CSL)" is the monthly amount of the Transmission Customer's Network Load in megawatts that the Transmission Customer elects to serve on a firm basis from sources internal to its system or over non-Federal transmission facilities or pursuant to contracts other than the Network Integration Service Agreement. The customer's Declared CSL is contractually specified for each month.

"Actual Customer-Served Load (CSL)" is the actual hourly amount of the Network Load in megawatts that the customer serves on a firm basis from sources internal to its system or over non-Federal transmission facilities or pursuant to contracts other than the Network Integration Service Agreement.

B. TRANSMISSION LOAD SHAPING CHARGE

The monthly Billing Factor for the Transmission Load Shaping Charge specified in section II.B shall be the Network Load on the hour of the Monthly Transmission Peak Load.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support NT transmission service are also available under the ACS rate schedule.

B. DELIVERY CHARGE

Customers taking service under this rate schedule are subject to the Delivery Charge specified in section II.A of the GRSPs.

C. METERING ADJUSTMENT

At those Points of Delivery that do not have meters capable of determining the demand on the hour of the Monthly Transmission Peak Load, the Billing Demand shall be calculated by substituting 1) the sum of the highest hourly demand that occurs during the billing month at all Points of Delivery multiplied by 0.66 for 2) Network Load on the hour of the Monthly Transmission Peak Load.

D. NT UNAUTHORIZED INCREASE CHARGE

If the customer's Actual Customer-Served Load (CSL) is less than its Declared CSL, the NT Unauthorized Increase Charge shall be assessed.

1. RATE

\$6.79 per kilowatt per month.

2. BILLING FACTORS

In each billing month on the hour of the Monthly Transmission Peak Load, the Billing Factor shall equal the Declared CSL minus the Actual CSL.

E. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

F. REDISPATCH

For each hour that TBL implements redispatch procedures pursuant to the Open Access Transmission Tariff, NT and NCD Transmission Customers shall be subject to:

1. the **Redispatch Adjustment for Accepted Bids** specified in section II.E of the GRSPs, and
2. the **Redispatch Charge** specified in section II.F of the GRSPs.

G. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty specified in section II.B of the GRSPs.

H. DIRECT ASSIGNMENT FACILITIES

TBL shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Network Integration Transmission customer under an applicable rate schedule.

I. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. NT customers that integrate new Network Resources, new Member Systems, or new native load customers that would require TBL to construct Network Upgrades shall be subject to the higher of the rates specified in section II. or incremental cost rates for service over such facilities. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

J. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

SCHEDULE NCD-02

NETWORK CONTRACT DEMAND RATE

SECTION I. AVAILABILITY

This schedule is available to Transmission Customers taking Network Contract Demand (NCD) Transmission Service over Federal Columbia River Transmission System (FCRTS) Network and Delivery facilities. Terms and conditions of service are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

\$1.132 per kilowatt per month.

SECTION III. BILLING FACTORS

The Billing Factor shall be the sum of the Point of Delivery Transmission Demands.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ASC-02 Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support NCD Transmission Service are available under the ASC rate schedule.

B. DELIVERY CHARGE

Customers taking service under this rate schedule are subject to the Delivery Charge specified in section II.A of the GRSPs.

C. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

D. NCD UNAUTHORIZED INCREASE CHARGE

Customers who exceed their Point of Delivery (POD) Transmission Demand at their PODs or at their Network Resources shall be subject to the NCD Unauthorized Increase Charge.

1. RATE

\$6.79 per kilowatt per month.

2. BILLING FACTORS

The billing factor shall be the higher of a or b.

a. POD Unauthorized Increase

For each hour of the monthly billing period, BPA shall determine the amount by which the Transmission Customer exceeds its Transmission Demands at each POD, to the extent practicable. BPA shall use hourly measurements based on a 10-minute moving average to calculate actual demands at PODs associated with loads that are one-way dynamically scheduled. Actual demands at all other PODs will be based on 60-minute integrated demands or transmission schedules.

For each hour, BPA will sum these amounts that exceed Transmission Demands for all PODs. The POD unauthorized increase for the monthly billing period shall be the highest one-hour POD sum.

b. Network Resource Unauthorized Increase

For each hour of the monthly billing period, BPA shall determine the amount by which the sum of the actual demands at Network Resources exceeds the total Transmission Demand, to the extent practicable. BPA shall use hourly measurements based on a 10-minute moving average to calculate actual demands at Network Resources that are one-way dynamically scheduled. Actual demands at all other Network Resources will be based on 60-minute integrated demands or transmission schedules.

For each hour, BPA will determine the amount that the demand at Network Resources exceeds the total Transmission Demand. The

Network Resource unauthorized increase for the monthly billing period shall be the highest hourly amount.

E. REDISPATCH

For each hour that TBL implements redispatch procedures pursuant to the Open Access Transmission Tariff, NT and NCD Transmission Customers shall be subject to:

1. the **Redispatch Adjustment for Accepted Bids** specified in section II.E of the GRSPs, and
2. the **Redispatch Charge** specified in section II.F of the GRSPs.

F. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

G. RESERVATION FEE

Customers who request new or increased firm transmission service under this rate schedule and want to reserve transmission capacity to accommodate such service are subject to the Reservation Fee specified in section II.G of the GRSPs.

H. DIRECT ASSIGNMENT FACILITIES

TBL shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Network Contract Demand Transmission customer under an applicable rate schedule.

I. INCREMENTAL COST RATES

The rates specified in section II. are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require TBL to construct Network Upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

J. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

SCHEDULE PTP-02 POINT-TO-POINT RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedules PTP-96, RNF-96, and ET-96. It is available to Transmission Customers taking Point-to-Point (PTP) Transmission Service over Federal Columbia River Transmission System (FCRTS) Network and Delivery facilities. Terms and conditions of service are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

A. LONG-TERM FIRM SERVICE

\$1.132 per kilowatt per month.

B. SHORT-TERM FIRM AND NONFIRM SERVICE

The charges for Short-Term Firm and Nonfirm Service shall not exceed:

1. Daily

For each reservation:

a. Days 1 through 5 \$0.052 per kilowatt per day

b. Days 6 and beyond \$0.037 per kilowatt per day

2. Hourly 3.26 mills per kilowatthour

SECTION III. BILLING FACTORS

A. The Billing Factor for Long-Term Firm Service, Short-Term Firm Service, and Daily Nonfirm Service shall be the greater of:

1. the sum of the Point of Receipt Transmission Demands, or
 2. the sum of the Point of Delivery Transmission Demands.
- B.** The Billing Factor for Hourly Nonfirm Service shall be the monthly sum of scheduled kilowatthours.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS-02 Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support PTP transmission service on the Network are available under the ACS rate schedule.

B. DELIVERY CHARGE

Customers taking service under this rate schedule are subject to the Delivery Charge specified in section II.A of the GRSPs.

C. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

D. SHORT-DISTANCE DISCOUNT (SDD)

When a Point of Receipt (POR) and Point of Delivery (POD) use FCRTS facilities for a distance of less than 75 circuit miles and are designated as being short distance in the PTP Service Agreement, the monthly Transmission Demands for the relevant POI and POD shall be adjusted, for the purpose of computing the monthly bill for annual service, by the following factor:

$$0.6 + (0.4 \times \text{transmission distance}/75)$$

Such adjusted monthly POR and POD Transmission Demands shall be used to compute the billing factors in section III.A.1. to calculate the monthly bill for Long-Term Firm PTP service. The POD Transmission Demand eligible for the SDD may be no larger than the POR Transmission Demand. The distance used to calculate the SDD will be contractually specified and based upon path(s) identified in power flow studies.

E. UNAUTHORIZED INCREASE CHARGE

Customers who exceed their Transmission Demand at any Point of Receipt (POR) or Point of Delivery (POD) shall be subject to the Unauthorized Increase Charge.

1. RATE

\$6.79 per kilowatt per month.

2. BILLING FACTORS

For each hour of the monthly billing period, BPA shall determine the amount by which the Transmission Customer exceeds its Transmission Demands at each POD and POR, to the extent practicable. BPA shall use hourly measurements based on a 10-minute moving average to calculate actual demands at PODs associated with loads that are one-way dynamically scheduled and at PORs associated with resources that are one-way dynamically scheduled. Actual demands at all other PODs and PORs will be based on 60-minute integrated demands or transmission schedules.

For each hour, BPA will sum these amounts that exceed Transmission Demands: a) for all PODs, and b) for all PORs. The Billing Factor for the monthly billing period shall be the greater of the highest one-hour POD sum or highest one-hour POR sum.

F. RESERVATION FEE

Customers who request new or increased firm transmission service under this rate schedule and want to reserve transmission capacity to accommodate such service are subject to the Reservation Fee specified in section II.C of the GRSPs.

G. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

H. DIRECT ASSIGNMENT FACILITIES

TBL shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Point-to-Point Customer under an applicable rate schedule.

I. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require TBL to construct Network Upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

J. INTERRUPTION OF DAILY NONFIRM SERVICE

If Daily Nonfirm Service is interrupted, the rates charged under section II.B.1 shall be prorated over the total hours in the day to give credit for the hours of such interruption.

K. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

SCHEDULE IS-02 SOUTHERN INTERTIE RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule IS-96. It is available to Transmission Customers taking Point-to-Point Transmission Service over Federal Columbia River Transmission System (FCRTS) Southern Intertie facilities. Terms and conditions of service are specified in the Open Access Transmission Tariff or, for customers who executed Southern Intertie agreements with BPA before October 1, 1996, will be as provided in the customer's agreement with BPA. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATES

A. LONG-TERM FIRM SERVICE

1. North to South

a. April - September \$1.299 per kilowatt per month

b. October - March \$0.974 per kilowatt per month

2. South to North \$1.157 per kilowatt per month

B. SHORT-TERM FIRM AND NONFIRM SERVICE – NORTH TO SOUTH

The charges for Short-Term Firm and Nonfirm Service shall not exceed:

1. Daily

For each reservation:

a. April - September

(1) Days 1 through 5 \$0.060 per kilowatt per day

(2) Day 6 and beyond \$0.043 per kilowatt per day

b. October - March

(1) Days 1 through 5 \$0.045 per kilowatt per day

(2) Day 6 and beyond \$0.032 per kilowatt per day

2. Hourly

a. April – September 3.74 mills per kilowatthour

b. October - March 2.81 mills per kilowatthour

C. SHORT-TERM FIRM AND NONFIRM SERVICE – SOUTH TO NORTH

The charges for Short-Term Firm and Nonfirm Service shall not exceed:

1. Daily

For each reservation:

a. Days 1 through 5 \$0.053 per kilowatt per day

b. Day 6 and beyond \$0.038 per kilowatt per day

2. Hourly 3.33 mills per kilowatthour

SECTION III. BILLING FACTORS

A. The Billing Factor for Long-Term Firm Service, Short-Term Firm Service, and Daily Nonfirm Service, shall be the greater of:

- 1.** the sum of the Point of Receipt Transmission Demands, or
- 2.** the sum of the Point of Delivery Transmission Demands.

For Southern Intertie transmission agreements executed prior to October 1, 1996, the Billing Factor shall be as specified in the agreement.

B. The Billing Factor for Hourly Nonfirm Service shall be the monthly sum of scheduled kilowatthours.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS-02 Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support PTP Transmission Service on the Southern Intertie are available under the ACS rate schedule.

B. INTERRUPTION OF DAILY NONFIRM SERVICE

If Daily Nonfirm Service is interrupted, the rates charged under sections II.B.1. and II.C.1. shall be prorated over the total hours in the day to give credit for the hours of such interruption.

C. RESERVATION FEE

Customers who request new or increased firm transmission service under this rate schedule and want to reserve transmission capacity to accommodate such service will be subject to the Reservation Fee specified in section II.G of the GRSPs.

D. POWER FACTOR PENALTY

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

E. UNAUTHORIZED INCREASE CHARGE

Customers who exceed their Transmission Demand at any Point of Receipt (POR) or Point of Delivery (POD) shall be subject to the Unauthorized Increase Charge.

1. RATE

\$6.79 per kilowatt per month.

2. BILLING FACTORS

For each hour of the monthly billing period, BPA shall determine the amount by which the Transmission Customer exceeds its Transmission Demands at each POD and POR, to the extent practicable. BPA shall use hourly measurements based on a 10-minute moving average to calculate actual demands at PODs associated with

loads that are one-way dynamically scheduled and at PORs associated with resources that are one-way dynamically scheduled. Actual demands at all other PODs and PORs will be based on 60-minute integrated demands or transmission schedules.

For each hour, BPA will sum these amounts that exceed Transmission Demands: a) for all PODs, and b) for all PORs. The Billing Factor for the monthly billing period shall be the greater of the highest one-hour POD sum or highest one-hour POR sum.

F. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

G. DIRECT ASSIGNMENT FACILITIES

TBL shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Transmission Customer under an applicable rate schedule.

H. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require TBL to construct new facilities or upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

I. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

SCHEDULE IM-02 MONTANA INTERTIE RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule IM-96. It is available to Transmission Customers taking Point-to-Point (PTP) Transmission Service on BPA's share of Montana Intertie transmission capacity. Terms and conditions of service are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

A. LONG-TERM FIRM SERVICE

\$1.239 per kilowatt per month.

B. SHORT-TERM FIRM AND NONFIRM SERVICE

The charges for Short-Term Firm and Nonfirm Service shall not exceed:

1. Daily

For each reservation:

a. Days 1 through 5 \$0.057 per kilowatt per day

b. Day 6 and beyond \$0.041 per kilowatt per day

2. Hourly 3.56 mills per kilowatthour

SECTION III. BILLING FACTORS

A. The Billing Factor for Long-Term Firm Service, Short-Term Firm Service, and Daily Nonfirm Service shall be the greater of:

1. the sum of the Point of Receipt Transmission Demands, or

2. the sum of the Point of Delivery Transmission Demands.
- B.** The Billing Factor for Hourly Nonfirm Service shall be the monthly sum of scheduled kilowatthours.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS-02 Scheduling, System Control and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support PTP Transmission Service on the Montana Intertie are available under the ACS rate schedule.

B. UNAUTHORIZED INCREASE CHARGE

Customers who exceed their Transmission Demand at any Point of Receipt (POR) or Point of Delivery (POD) shall be subject to the Unauthorized Increase Charge.

1. RATE

\$6.79 per kilowatt per month.

2. BILLING FACTORS

For each hour of the monthly billing period, TBL shall determine the amount by which the Transmission Customer exceeds its Transmission Demands at each POD and POR, to the extent practicable. TBL shall use hourly measurements based on a 10-minute moving average to calculate actual demands at PODs associated with loads that are one-way dynamically scheduled and at PORs associated with resources that are one-way dynamically scheduled. Actual demands at all other PODs and PORs will be based on 60-minute integrated demands or transmission schedules.

For each hour, TBL will sum these amounts that exceed Transmission Demands: a) for all PODs, and b) for all PORs. The Billing Factor for the monthly billing period shall be the greater of the highest one-hour POD sum or highest one-hour POR sum.

C. INTERRUPTION OF DAILY NONFIRM SERVICE

If Daily Nonfirm Service is interrupted, the rates charged under section II.B.1. shall be prorated over the total hours in the day to give credit for the hours of such interruption.

D. RESERVATION FEE

Customers who request new or increased firm transmission service under this rate schedule and want to reserve transmission capacity to accommodate such service will be subject to the Reservation Fee specified in section II.G of the GRSPs.

E. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in section II.B of the GRSPs.

F. DIRECT ASSIGNMENT FACILITIES

TBL shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Transmission Customer under an applicable rate schedule.

G. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require TBL to construct new facilities or upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

H. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

SCHEDULE UFT-02 USE-OF-FACILITIES TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule UFT-96 unless otherwise provided in the agreement, and is available for firm transmission over specified Federal Columbia River Transmission System (FCRTS) facilities. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge per kilowatt of Transmission Demand specified in the agreement shall be one-twelfth of the annual cost of capacity of the specified facilities divided by the sum of Transmission Demands (in kilowatts) using such facilities. Such annual cost shall be determined in accordance with section III.

SECTION III. DETERMINATION OF TRANSMISSION RATE

- A.** From time to time, but not more often than once a year, TBL shall determine the following data for the facilities which have been constructed or otherwise acquired by TBL and which are used to transmit electric power:
- 1.** The annual cost of the specified FCRTS facilities, as determined from the capital cost of such facilities and annual cost ratios developed from the Federal Columbia River Power System financial statement, including interest and amortization, operation and maintenance, administrative and general, and general plant costs.

The annual cost per kilowatt of facilities listed in the agreement, which are owned by another entity, and used by TBL for making deliveries to the transferee, shall be determined from the costs specified in the agreement between TBL and such other entity.
 - 2.** The yearly noncoincident peak demands of all users of such facilities or other reasonable measurement of the facilities' peak use.
- B.** The monthly charge per kilowatt of billing demand shall be one-twelfth of the sum of the annual cost of the FCRTS facilities used divided by the sum of Transmission Demands. The annual cost per kilowatt of Transmission Demand

for a facility constructed or otherwise acquired by TBL shall be determined in accordance with the following formula:

$$\frac{A}{D}$$

Where:

A = The annual cost of such facility as determined in accordance with A.1. above.

D = The sum of the yearly noncoincident demands on the facility as determined in accordance with A.2. above.

1. For facilities used solely by one customer, TBL may charge a monthly amount equal to the annual cost of such sole-use facilities, determined in accordance with section III.A.1, divided by 12.
2. For facilities used by more than one customer, TBL may charge a monthly amount equal to the annual cost of such facilities prorated based on relative use of the facilities, divided by 12.

SECTION IV. DETERMINATION OF BILLING FACTORS

Unless otherwise stated in the agreement, the factor to be used in determining the kilowatts of Billing Factor shall be the largest of:

- A. The Transmission Demand in kilowatts specified in the agreement;
- B. The highest hourly Measured or Scheduled Demand for the month; or
- C. The Ratchet Demand.

SECTION V. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary services that are required to support UFT transmission service are available under the ACS rate schedule.

B. POWER FACTOR PENALTY CHARGE

Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in section II.C of the GRSPs.

SCHEDULE AF-02 ADVANCE FUNDING RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule AF-96 and is available to customers who execute an agreement that provides for TBL to collect capital and related costs through advance funding or other financial arrangement for specified BPA-owned Federal Columbia River Transmission System (FCRTS) facilities used for:

- A.** Interconnection or integration of resources and loads to the FCRTS;
- B.** Upgrades, replacements, or reinforcements of the FCRTS for transmission service; or
- C.** Other transmission service arrangements, as determined by TBL.

Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The charge is the sum of the actual capital and related costs for specified FCRTS facilities, as provided in the agreement. Such actual capital and related costs include, but are not limited to, costs of design, materials, construction, overhead, spare parts, and all incidental costs necessary to provide service as identified in the agreement.

SECTION III. PAYMENT

A. ADVANCE PAYMENT

Payment to TBL shall be specified in the agreement as either:

- 1.** A lump sum advance payment;
- 2.** Advance payments pursuant to a schedule of progress payments; or
- 3.** Other payment arrangement, as determined by TBL.

Such advance payment or payments shall be based on an estimate of the capital and related costs for the specified FCRTS facilities as provided in the agreement.

B. ADJUSTMENT TO ADVANCE PAYMENT

TBL shall determine the actual capital and related costs of the specified FCRTS facilities as soon as practicable after the date of commercial operation, as determined by TBL. The customer will either receive a refund from TBL or be billed for additional payment for the difference between the advance payment and the actual capital and related costs.

SCHEDULE TGT-02

TOWNSEND-GARRISON TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule TGT-96 and is available to Companies that are parties to the Montana Intertie Agreement (Contract No. DE-MS79-81BP90210, as amended) which provides for firm transmission over TBL's section (Garrison to Townsend) of the Montana Intertie. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The monthly charge shall be one-twelfth of the sum of the annual charges listed below, as applicable and as specified in the agreements for firm transmission. The Townsend-Garrison 500-kV lines and associated terminal, line compensation, and communication facilities are a separately identified portion of the Federal Transmission System. Annual revenues plus credits for government use should equal annual costs of the facilities, but in any given year there may be either a surplus or a deficit. Such surpluses or deficits for any year shall be accounted for in the computation of annual costs for succeeding years. Revenue requirements for firm transmission use will be decreased by any revenues received from nonfirm use and credits for all government use. The general methodology for determining the firm rate is to divide the revenue requirement by the total firm capacity requirements. Therefore, the higher the total capacity requirements, the lower will be the unit rate.

If the government provides firm transmission service in its section of the Montana [Eastern] Intertie in exchange for firm transmission service in a customer's section of the Montana Intertie, the payment by the government for such transmission services provided by such customer will be made in the form of a credit in the calculation of the Intertie Charge for such customer. During an estimated 1- to 3-year period following the commercial operation of the third generating unit at the Colstrip Thermal Generating Plant at Colstrip, Montana, the capability of the Federal Transmission System west of Garrison Substation may be different from the long-term situation. It may not be possible to complete the extension of the 500-kV portion of the Federal Transmission System to Garrison by such commercial operation date. In such event, the 500/230 kV transformer will be an essential extension of the Townsend-Garrison Intertie facilities, and the annual costs of such transformer will be included in the calculation of the Intertie Charge.

However, starting 1 month after extension to Garrison of the 500-kV portion of the Federal Transmission System, the annual costs of such transformer will no longer be included in the calculation of the Intertie Charge.

A. NONFIRM TRANSMISSION CHARGE:

This charge will be filed as a separate rate schedule, the Eastern Intertie (IE) rate, and revenues received thereunder will reduce the amount of revenue to be collected under the Intertie Charge below.

B. INTERTIE CHARGE FOR FIRM TRANSMISSION SERVICE:

$$\text{Intertie Charge} = \frac{[(\text{TAC}/12) - \text{NFR}] \times (\text{CR} - \text{EC})}{\text{TCR}}$$

SECTION III. DEFINITIONS

- A.** TAC = Total Annual Costs of facilities associated with the Townsend-Garrison 500-kV Transmission line including terminals, and prior to extension of the 500-kV portion of the Federal Transmission System to Garrison, the 500/230 kV transformer at Garrison. Such annual costs are the total of: (1) interest and amortization of associated Federal investment and the appropriate allocation of general plant costs; (2) operation and maintenance costs; (3) allowance for BPA's general administrative costs which are appropriately allocable to such facilities, and (4) payments made pursuant to section 7(m) of Public Law 96-501 with respect to these facilities. Total Annual Costs shall be adjusted to reflect reductions to unpaid total costs as a result of any amounts received, under agreements for firm transmission service over the Montana Intertie, by the government on account of any reduction in Transmission Demand, termination or partial termination of any such agreement or otherwise to compensate BPA for the unamortized investment, annual cost, removal, salvage, or other cost related to such facilities.
- B.** NFR = Nonfirm Revenues, which are equal to: (1) the product of the Nonfirm Transmission Charge described in II(A) above, and the total nonfirm energy transmitted over the Townsend-Garrison line segment under such charge for such month; plus (2) the product of the Nonfirm Transmission Charge and the total nonfirm energy transmitted in either direction by the Government over the Townsend-Garrison line segment for such month.
- C.** CR = Capacity Requirement of a customer on the Townsend-Garrison 500-kV transmission facilities as specified in its firm transmission agreement.
- D.** TCR = Total Capacity Requirement on the Townsend-Garrison 500-kV transmission facilities as calculated by adding (1) the sum of all Capacity Requirements (CR) specified in transmission agreements described in section I; and (2) the Government's firm capacity requirement. The Government's firm capacity requirement shall be no less than the total of the amounts, if any, specified in firm transmission agreements for use of the Montana Intertie.

- E.** EC = Exchange Credit for each customer which is the product of: (1) the ratio of investment in the Townsend-Broadview 500-kV transmission line to the investment in the Townsend-Garrison 500-kV transmission line; and (2) the capacity which the Government obtains in the Townsend-Broadview 500-kV transmission line through exchange with such customer. If no exchange is in effect with a customer, the value of EC for such customer shall be zero.

SCHEDULE IE-02 EASTERN INTERTIE RATE

SECTION I. AVAILABILITY

This schedule supersedes IE-96 and is available to Companies that are parties to the Montana Intertie Agreement (Contract No. DE-MS79-81BP90210, as amended), for nonfirm transmission service on the portion of Eastern Intertie capacity above TBL's firm transmission rights. Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

SECTION II. RATE

The charge shall not exceed 1.38 mills per kilowatthour.

SECTION III. BILLING FACTORS

The Billing Factor shall be the monthly sum of the scheduled kilowatthours, unless otherwise specified in the agreement.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary services that may be required to support IE transmission service are available under the ACS rate schedule.

B. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty specified in section II.B of the GRSPs.

SCHEDULE ACS-02 ANCILLARY SERVICES AND CONTROL AREA SERVICES RATE

SECTION I. AVAILABILITY

This schedule supersedes Schedule APS-96. It is available to all Transmission Customers taking service under the Open Access Transmission Tariff and other contractual arrangements. This schedule is available also for transmission service of a similar nature ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§824j and 824k). Service under this schedule is subject to TBL's General Rate Schedule Provisions (GRSPs).

Ancillary Services are needed with transmission service to maintain reliability within and among the Control Areas affected by the transmission service. The Transmission Provider is required to provide, and the Transmission Customer is required to purchase, the following Ancillary Services: (a) Scheduling, System Control and Dispatch, and (b) Reactive Supply and Voltage Control from Generation Sources.

The Transmission Provider is required to offer to provide the following Ancillary Services to Transmission Customers serving load or integrating generation within the Transmission Provider's Control Area: (a) Regulation and Frequency Response, (b) Energy Imbalance, (c) Operating Reserve - Spinning, and (d) Operating Reserve - Supplemental. The Transmission Customer serving load or integrating generation within the Transmission Provider's Control Area is required to acquire these Ancillary Services, whether from the Transmission Provider, from a third party, or by self-supply. The Transmission Customer may not decline the Transmission Provider's offer of Ancillary Services unless it demonstrates that it has acquired the Ancillary Services from another source in a manner that is technically achievable, which conforms to the criteria and standards established by the Transmission Provider for the provision of the specific Ancillary Services including the relevant North American Electric Reliability Council (NERC), Western Systems Coordinating Council (WSCC) and Northwest Power Pool (NWPP), criteria. Any such self-supply or third-party supply arrangements shall be specified in the Transmission Customer's Service Agreement.

Ancillary Service rates available under this rate schedule are:

1. Scheduling, System Control, and Dispatch Service
2. Reactive Supply and Voltage Control from Generation Sources Service
3. Regulation and Frequency Response Service
4. Energy Imbalance Service
5. Operating Reserve -- Spinning Reserve Service

6. Operating Reserve -- Supplemental Reserve Service

Control Area Services are available to meet the Reliability Obligations of a party with resources or loads in the BPA Control Area. A party that is not satisfying all of its Reliability Obligations through the purchase or self-provision of Ancillary Services must purchase Control Area Services to meet its Reliability Obligations. Control Area Services are also available to parties with resources or loads in the BPA Control Area that have Reliability Obligations, but do not have a transmission agreement with BPA. Reliability Obligations for resources or loads in the BPA Control Area shall be determined consistent with the applicable NERC, WSCC, and NWPP criteria.

Control Area Service rates available under this rate schedule are:

- 1. Regulation and Frequency Response Service**
- 2. Generation Imbalance Service**
- 3. Operating Reserve -- Spinning Reserve Service**
- 4. Operating Reserve -- Supplemental Reserve Service**

SECTION II. ANCILLARY SERVICE RATES

A. SCHEDULING, SYSTEM CONTROL AND DISPATCH SERVICE

The rates below apply to Transmission Customers taking Scheduling, System Control and Dispatch Service from TBL. These rates apply to both firm and non-firm transmission transactions. Transmission on the Network, on the Southern Intertie, and on the Montana Intertie are each charged separately for Scheduling, System Control and Dispatch Service.

1. RATE

a. Long-Term Firm Service

The rate shall not exceed \$0.170 per kilowatt per month.

b. Short Term Firm and Nonfirm Service

The rates for Short-Term Firm and Nonfirm Service shall not exceed:

(1) Daily

For each reservation:

(i) Days 1 through 5 \$0.008 per kilowatt per day

(ii) Day 6 and beyond \$0.005 per kilowatt per day

(2) Hourly 0.49 mills per kilowatthour

2. BILLING FACTORS

For Transmission Customers taking Point-to-Point Transmission Service (PTP, IS, and IM rates), Network Contract Demand Transmission Service (NCD rate), and Integration of Resources service (IR rate), the Billing Factor is Transmission Demand. Transmission Demands on the Network, on the Southern Intertie, and on the Montana Intertie are each charged separately.

For Transmission Customers taking Network Integration Transmission Service, the Billing Factor shall equal the NT Base Charge Billing Factor determined pursuant to section III.A of the Network Integration Rate Schedule (NT-02).

SECTION II. ANCILLARY SERVICE RATES

B. REACTIVE SUPPLY AND VOLTAGE CONTROL FROM GENERATION SOURCES SERVICE

The rates below apply to Transmission Customers taking Reactive Supply and Voltage Control from Generation Sources Service from TBL. These rates apply to both firm and non-firm transmission transactions. Transmission on the Network, on the Southern Intertie, and on the Montana Intertie are each charged separately for Reactive Supply and Voltage Control from Generation Sources Service.

1. RATE

a. Long Term Firm Service

The rate shall not exceed \$0.080 per kilowatt per month.

b. Short Term Firm and Nonfirm Service

The rates for Short-Term Firm and Nonfirm Service shall not exceed:

(1) Daily

For each reservation:

(i) Days 1 through 5 \$0.004 per kilowatt per day

(ii) Day 6 and beyond \$0.003 per kilowatt per day

(2) Hourly 0.23 mills per kilowatt per hour

2. BILLING FACTORS

- a.** For Transmission Customers taking Point-to-Point Transmission Service (PTP, IS, and IM rates), Network Contract Demand Transmission Service (NCD rate), and Integration of Resources service (IR rate), the Billing Factor is Transmission Demand. Transmission Demands on the Network, on the Southern Intertie, and on the Montana Intertie are each charged separately.

For Transmission Customers taking Network Integration Transmission Service, the Billing Factor shall equal the NT Base Charge Billing Factor

determined pursuant to section III.A of the Network Integration Rate Schedule (NT-02).

- b.** The Billing Factor in section 2.a. above may be reduced as specified in the Transmission Customer's Service Agreement to the extent the Transmission Customer demonstrates to TBL's satisfaction that it can self-provide Reactive Supply and Voltage Control from Generation Sources Service.

SECTION II. ANCILLARY SERVICE RATES

C. REGULATION AND FREQUENCY RESPONSE SERVICE

The rate below for Regulation and Frequency Response Service applies to Transmission Customers serving loads in the BPA Control Area. Regulation and Frequency Response Service provides the generation capability to follow the moment-to-moment variations of loads in the BPA Control Area and maintain the power system frequency at 60 Hz in conformance with NERC and WSCC reliability standards.

1. RATE

The rate shall not exceed 0.30 mills per kilowatthour.

2. BILLING FACTORS

The Billing Factor is the customer's total load in the BPA Control Area, in kilowatthours.

SECTION II. ANCILLARY SERVICE RATES

D. ENERGY IMBALANCE SERVICE

The rates below apply to Transmission Customers taking Energy Imbalance Service from TBL. Energy Imbalance Service is taken when there is a difference between scheduled and actual energy delivered to a load in the BPA Control Area during a schedule hour. The rates for this service differ depending upon whether the Energy Imbalance occurs within the Energy Imbalance Deviation Band or outside the Energy Imbalance Deviation Band. The Energy Imbalance Deviation Band is + or – 1.5% of the schedule amount of energy **or** 2 MW, whichever is larger (absolute value).

1. RATE

a. For Energy Imbalance Within the Energy Imbalance Deviation Band

TBL will maintain a deviation account showing the net Energy Imbalance (the sum of positive and negative deviations from schedule for each hour). Return energy must be scheduled to bring the deviation account balance to zero each month. TBL will designate the hours and amounts of return energy for each hour that will be scheduled. The customer shall make the arrangements and submit the schedule for the balancing transaction.

b. For Energy Imbalance Outside the Energy Imbalance Deviation Band

- (1) When energy taken in a schedule hour by the Transmission Customer exceeds the energy scheduled, the charge will be the greater of (i) BPA's incremental cost plus 10%, or (ii) 100 mills per kilowatthour.

BPA's incremental cost will be based on an hourly energy index in the PNW, if one exists. If one does not exist, an alternative index will be used based on: the Dow-Jones Mid-Columbia, California PX, or NYMEX Mid-Columbia index prices. On September 30 of each year, TBL will post on the OASIS the index to be used for the ensuing fiscal year.

- (2) When energy taken by the Transmission Customer is less than the scheduled amount, a credit equal to 90% of BPA's decremental cost may be given for deviations.

2. BILLING FACTORS

For each hour an Energy Imbalance occurs, the Billing Factor for the rates specified in section 1.b., Energy Imbalance Outside the Energy Imbalance Deviation Band, is:

- a.** the amount of energy that the Transmission Customer takes, in kilowatthours, in excess of the Energy Imbalance Deviation Band, or
- b.** the Transmission Customer's qualifying energy difference, in kilowatthours, between the energy taken and the lower limit of the Energy Imbalance Deviation Band (a negative balance).

No credit will be given for an energy difference if: (a) the imbalance was an Intentional Deviation (as determined by TBL); or (b) the Federal System was in a Spill Condition at any time during the month.

SECTION II. ANCILLARY SERVICE RATES

E. OPERATING RESERVE -- SPINNING RESERVE SERVICE

The rates below apply to Transmission Customers taking Operating Reserve -- Spinning Reserve Service from TBL. Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. For a Transmission Customer's load served by generation located in the BPA Control Area, the Transmission Customer's Spinning Reserve Requirement shall be determined consistent with applicable NERC, WSCC and NWPP standards.

1. RATE

- a.** The rate shall not exceed 8.27 mills per kilowatthour of Spinning Reserve Requirement.
- b.** For energy delivered, the Transmission Customer may:
 - i)** Purchase the energy at the hourly market index price applicable at the time of occurrence, or
 - ii)** Return the energy at the times specified by TBL.

2. BILLING FACTORS

- a.** The Billing Factor for Spinning Reserve Service is determined in accordance with applicable WSCC and NWPP standards. Application of current standards establish a minimum Spinning Reserve Requirement equal to the sum of:
 - i)** Two and a half percent (2 1/2%) of the hydroelectric generation dedicated to the Transmission Customer's firm load responsibility; and
 - ii)** Three and a half percent (3 1/2%) of non-hydroelectric generation dedicated the Transmission Customer's firm load responsibility.
- b.** The Billing Factor for energy delivered when Spinning Reserve Service is called upon is the energy delivered, in kilowatthours.

SECTION II. ANCILLARY SERVICE RATES

F. OPERATING RESERVE -- SUPPLEMENTAL RESERVE SERVICE

The rates below apply to Transmission Customers taking Operating Reserve -- Supplemental Reserve Service from TBL. Supplemental Reserve Service is available within a short period of time to serve load in the event of a system contingency. For a Transmission Customer's load served by generation located in the BPA Control Area, the Transmission Customer's Supplemental Reserve Requirement shall be determined consistent with applicable NERC, WSCC and NWPP standards.

1. RATE

- a.** The rate shall not exceed 8.27 mills per kilowatthour of Supplemental Reserve Requirement.
- b.** For energy delivered, the Transmission Customer may:
 - i)** Purchase the energy at the hourly market index price applicable at the time of occurrence, or
 - ii)** Return the energy at the times specified by TBL.

2. BILLING FACTORS

- a.** The Billing Factor for Supplemental Reserve Service is determined in accordance with applicable WSCC and NWPP standards. Application of current standards establish a minimum Supplemental Reserve Requirement equal to the sum of:
 - i)** Two and one half percent (2 1/2%) of the hydroelectric generation dedicated to the Transmission Customer's firm load responsibility, plus
 - ii)** Three and one half percent (3 1/2%) of non-hydroelectric generation dedicated the Transmission Customer's firm load responsibility, plus
 - iii)** Any power scheduled into the BPA Control Area that can be interrupted on ten (10) minutes' notice.
- b.** The Billing Factor for energy delivered when Supplemental Reserve Service is called upon is the energy delivered, in kilowatthours.

SECTION III. CONTROL AREA SERVICE RATES

A. REGULATION AND FREQUENCY RESPONSE SERVICE

The rate below applies to all loads in the BPA Control Area that are receiving Regulation and Frequency Response Service from the BPA Control Area, and such Regulation and Frequency Response Service is not provided for under a TBL transmission agreement. Regulation and Frequency Response Service provides the generation capability to follow the moment-to-moment variations of loads in the BPA Control Area and maintain the power system frequency at 60 Hz in conformance with NERC and WSCC reliability standards.

1. RATE

The rate shall not exceed 0.30 mills per kilowatthour.

2. BILLING FACTORS

The Billing Factor is the customer's total load in the BPA Control Area, in kilowatthours.

SECTION III. CONTROL AREA SERVICE RATES

B. GENERATION IMBALANCE SERVICE

The rates below apply to all generation resources in the BPA Control Area. Generation Imbalance Service is taken when there is a difference between scheduled and actual energy delivered from generation resources in the BPA Control Area during a schedule hour. The rates for this service differ depending upon whether the Generation Imbalance occurs within the Generation Imbalance Deviation Band or outside the Generation Imbalance Deviation Band. The Generation Imbalance Deviation Band is + or – 1.5% of the scheduled amount of energy, or 2 MW, whichever is larger (absolute value).

1. RATES

a. For Imbalance Within the Generation Imbalance Deviation Band

TBL will maintain a deviation account showing the net Generation Imbalance (the sum of positive and negative deviations from schedule for each hour). Return energy must be scheduled to bring the deviation account balance to zero each month. TBL will designate the hours and amounts of return energy for each hour that will be scheduled. The customer shall make the arrangements and submit the schedule for the balancing transaction.

b. For Imbalance Outside the Generation Imbalance Deviation Band

- i.** When energy delivered in a schedule hour by the generation resource is less than the energy scheduled, the charge will be the greater of (i) BPA's incremental cost plus 10%, or (ii) 100 mills per kilowatthour.

BPA's incremental cost will be based on an hourly energy index in the PNW, if one exists. If one does not exist, an alternative index will be based on: the Dow-Jones Mid-Columbia, California PX, or NYMEX Mid-Columbia index prices. On September 30 each year, TBL will post on the OASIS the index to be used for the ensuing fiscal year.

- ii.** When energy delivered by the generation resource is greater than the scheduled amount, a credit equal to 90% of BPA's decremental cost may be given for deviations.

2. BILLING FACTORS

For each hour a Generation Imbalance occurs, the Billing Factor for the rates specified in section 1.b., Imbalance Outside the Generation Imbalance Deviation Band, is:

- a.** the amount of energy that the customer delivers, in kilowatthours, less than the lower limit of the Generation Imbalance Deviation Band, or
- b.** the amount of energy the customer delivers, in kilowatthours, in excess of the upper limit of the Generation Imbalance Deviation Band.

No credit will be given for an energy difference if: (a) the imbalance was an Intentional Deviation (as determined by TBL); or (b) the Federal System was in a Spill Condition at any time during the month.

SECTION III. CONTROL AREA SERVICE RATES

C. OPERATING RESERVE -- SPINNING RESERVE SERVICE

Operating Reserve -- Spinning Reserve Service must be purchased by a party with generation in the BPA Control Area that is receiving this service from TBL, and such Spinning Reserve Service is not provided for under a TBL transmission agreement. Service is being received if there are no other qualifying resources providing this required reserve service in conformance with NERC, WSCC and NWPP standards.

1. RATE

- a.** The rate shall not exceed 8.27 mills per kilowatthour of Spinning Reserve Requirement
- b.** For energy delivered, the customer may:
 - i)** Purchase the energy at the hourly market index price applicable at the time of occurrence, or
 - ii)** Return the energy at the times specified by BPA.

2. BILLING FACTORS

- a.** The Billing Factor for Spinning Reserve Service is determined in accordance with applicable WSCC and NWPP standards. Application of current standards establish a minimum Spinning Reserve Requirement equal to the sum of:
 - i)** Two and one half percent (2 1/2%) of the hydroelectric generation dedicated to the customer's firm load responsibility, plus
 - ii)** Three and one half percent (3 1/2%) of non-hydroelectric generation dedicated the customer's firm load responsibility.
- b.** The Billing Factor for energy delivered when Spinning Reserve Service is called upon is the energy delivered, in kilowatthours.

SECTION III. CONTROL AREA SERVICE RATES

D. OPERATING RESERVE -- SUPPLEMENTAL RESERVE SERVICE

Operating Reserve -- Supplemental Reserve Service must be purchased by a party with generation in the BPA Control Area that is receiving this service from TBL, and such Supplemental Reserve Service is not provided for under a TBL transmission agreement. Service is being received if there are no other qualifying resources providing this required reserve service in conformance with NERC, WSCC and NWPP standards.

1. RATES

- a.** The rate shall not exceed 8.27 mills per kilowatthour of Supplemental Reserve Requirement
- b.** For energy delivered, the customer may:
 - i)** Purchase the energy at the hourly market index price applicable at the time of occurrence, or
 - ii)** Return the energy at the times specified by BPA.

2. BILLING FACTORS

- a.** The Billing Factor for Supplemental Reserve Service is determined in accordance with applicable WSCC and NWPP guidelines. Application of current guidelines establish a minimum Supplemental Reserve Requirement equal to the sum of:
 - i)** Two and one half percent (2 1/2%) of the hydroelectric generation dedicated to the customer's firm load Responsibility, plus
 - ii)** Three and one half percent (3 1/2%) of non-hydroelectric generation dedicated the customer's firm load responsibility, plus
 - iii)** Any power scheduled into the BPA Control Area that can be interrupted on ten (10) minutes' notice.
- b.** The Billing Factor for energy delivered when Supplemental Reserve Service is called upon is the energy delivered, in kilowatthours.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA §212 specified in section II.D of the GRSPs.

GENERAL RATE SCHEDULE PROVISIONS
FOR TRANSMISSION AND ANCILLARY SERVICE RATES

SECTION I. GENERALLY APPLICABLE PROVISIONS

A. APPROVAL OF RATES

These 2002 rate schedules and General Rate Schedule Provisions for Transmission and Ancillary Service Rates (GRSPs) shall become effective upon interim approval or upon final confirmation and approval by the Federal Energy Regulatory Commission (FERC). Bonneville Power Administration (BPA) has requested that FERC make these rates and GRSPs effective on October 1, 2001. All rate schedules shall remain in effect until they are replaced or expire on their own terms.

B. GENERAL PROVISIONS

These 2002 rate schedules and the GRSPs associated with these schedules supersede BPA's 1996 rate schedules (which became effective October 1, 1996) to the extent stated in the Availability section of each rate schedule. These schedules and GRSPs shall be applicable to all TBL contracts, including contracts executed both prior to, and subsequent to, enactment of the Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act). All sales under these rate schedules are subject to the following acts as amended: the Bonneville Project Act (P.L. 75-329), the Regional Preference Act (P.L. 88-552), the Federal Columbia River Transmission System Act (P.L. 93-454), the Northwest Power Act (P.L. 96-501), and the Energy Policy Act of 1992 (P.L. 102-486).

These 2002 rate schedules do not supersede any previously established rate schedule that is required, by agreement, to remain in effect.

If a provision in an executed agreement is in conflict with a provision contained herein, the former shall prevail.

C. NOTICES

For the purpose of determining elapsed time from receipt of a notice applicable to rate schedule and GRSP administration, a notice shall be deemed to have been received at 0000 hours on the first calendar day following actual receipt of the notice.

D. BILLING AND PAYMENT

1. Billing

BPA's Transmission Business Line (TBL) shall render monthly bills to the Transmission Customer for transmission services. Failure to receive a bill shall not release the Transmission Customer from liability for payment. If requested by the Transmission Customer, the TBL shall electronically transmit the Transmission

Customer's monthly bill to the Transmission Customer on the issue date of the bill, provided the parties have compatible electronic equipment. The TBL may elect to electronically transmit only that portion of the bill showing the amount owed. If the entire bill is not provided by electronic means, the TBL shall also send the Transmission Customer a complete copy of its monthly bill by mail.

(a) Due Date

Payment shall be due by close of business on the twentieth (20th) day after the issue date of the bill (Due Date). If the 20th day is a Saturday, Sunday, or Federal holiday, the Due Date shall be the next Business Day.

(b) Payments

(1) The Transmission Customer must pay by electronic funds transfer using procedures established by the TBL. However, exceptions to the method of payment may be made on a case by case basis according to the criteria listed below. All payment amounts are due and payable on the Due Date.

(2) The Transmission Customer may pay its bill by alternate method, provided the following criteria can be met:

- (A) The Transmission Customer requests to pay by an alternate method at least thirty (30) days in advance of the billing date; and
- (B) The Transmission Customer ensures that the TBL receives full payment by the above-stated Due Date; and
- (C) The Transmission Customer has not previously incurred late payment charges while paying its bills by an alternate method; and
- (D) The TBL approves the alternate payment method requested by the Transmission Customer.

(c) Payments by Mail

If the Transmission Customer requests to pay its bill by mail as an alternate payment method, meets the requirements of section D.1(b)(2) above, and the TBL approves such request, payments shall be mailed to:

Bonneville Power Administration
PO Box 6040
Portland, OR 97228-6040

The TBL must receive payment for such bills by the Due Date.

(d) Pre-authorized Debit

The Transmission Customer may elect, with the TBL's concurrence, to pay through the use of a pre-authorized debit which is an electronic payment option authorizing the TBL to automatically withdraw a Transmission Customer's payments from its bank account.

(e) Computation of Bills

Bills for products and services may be rounded to whole dollar amounts, by eliminating any amount which is less than 50 cents, and increasing any amount from 50 cents through 99 cents to the next higher dollar.

(f) Estimated Bills

At its option, the TBL may elect to render an estimated bill for a month to be followed at a subsequent billing date by a final bill for that month. Such estimated bill shall have the validity of, and is subject to, the same payment provisions as a final bill.

(g) Late Payment

Bills not paid in full with payment received by the TBL before close of business on the Due Date shall be subject to a late payment charge of one-twentieth percent (0.05 percent) applied each day to the unpaid balance. This late payment charge shall be assessed on a daily basis until such time as the TBL receives the unpaid amount.

(h) Revised Bills

As necessary, the TBL may render revised bills. The date of a revised bill shall be its issue date.

- (1)** If the amount of the revised bill is more than the amount of the previous bill, the previous bill remains due on its Due Date, and the additional amount is due on the Due Date of the revised bill.
- (2)** If the amount of the revised bill is less than the amount of the previous bill, the obligation to pay the previous bill is satisfied by payment of the revised bill on the Due Date of the previous bill.
- (3)** If the revised bill changes the party to whom money is due prior to payment of the previous bill, the previous bill is canceled and the amount owed the other party is due on the Due Date of the revised bill.

- (4) If payment of the previous bill results in an overpayment, a refund is due on the later of (a) the Due Date of the revised bill, or (b) twenty (20) days from the receipt of the payment for the original bill. Should refund not be made by the TBL by the above date, late payment interest shall accrue and be paid by the TBL pursuant to the Prompt Payment Act.

(i) Disputed Bills

- (1) In the event of a billing dispute between the TBL and the Transmission Customer, the TBL will continue to provide service under the Service Agreement as long as the Transmission Customer: (1) continues to make all payments not in dispute; and (2) pays into an escrow account the portion of the invoice in dispute. If the Transmission Customer fails to meet these two requirements for continuation of service, then the TBL may provide notice of its intent to suspend service to the Transmission Customer in sixty (60) days.
- (2) If it is determined that the Transmission Customer is entitled to a refund of any portion of the disputed amount, then TBL will make such refund with interest computed from the date of receipt of the disputed payment to the date the refund is made. The TBL shall make such refund with simple interest. The daily interest rate used to determine the interest is calculated by dividing the Prompt Payment Act Interest Rate by 365. The Applicable Prompt Payment Act Interest Rate shall be the rate that is in effect on the date in which the TBL receives payment. Should a third party escrow account service be necessary, the escrow fees will be split evenly between the TBL and the Transmission Customer and interest on the disputed funds will be the interest paid by the institution providing the escrow service.

2. Customer Default

In the event the Transmission Customer fails, for any reason other than a billing dispute as described above, to make payment to the TBL on or before the Due Date as described above, and such failure of payment is not corrected within thirty (30) calendar days after the TBL notifies the Transmission Customer to cure such failure, a default by the Transmission Customer shall be deemed to exist. Upon the occurrence of default the TBL may notify the Transmission Customer that it plans to terminate service in sixty (60) days. The Transmission Customer may use dispute resolution procedures in its agreement to contest such termination.

3. Records

The TBL and the Transmission Customer shall keep such records as may be needed to afford a clear history of all transactions. The originals of all such records shall be retained for a minimum of two (2) years plus the current year (or such longer period as may be required by any regulatory commission having jurisdiction), and copies shall be delivered to the other party on request.

SECTION II. ADJUSTMENTS, CHARGES, AND SPECIAL RATE PROVISIONS

A. DELIVERY CHARGE

Transmission Customers shall pay a Delivery Charge for service over DSI Delivery facilities and Utility Delivery facilities.

1. RATES

a. DSI Delivery

i. Use-of-Facilities (UFT-02) Rate, section III.B.1 or III.B.2, multiplied by

ii. 1.197

b. Utility Delivery

\$1.299 per kilowatt per month.

2. BILLING FACTORS

a. Utility Delivery

The monthly Billing Factor for the Utility Delivery rate in section 1.b. shall be the total load on the hour of the Monthly Transmission Peak Load at the Points of Delivery specified as Utility Delivery facilities.

b. Metering Adjustment

At those Points of Delivery that do not have meters capable of determining the demand on the hour of the Monthly Transmission Peak Load, the Billing Factor under section 2.a. shall equal the highest hourly demand that occurs during the billing month at the Point of Delivery multiplied by 0.66.

c. Utility Delivery Charge Billing Factor Adjustment

The monthly Utility Delivery Billing Factor in section 2.a shall be adjusted for customers who pay for Utility Delivery facilities under the Use-of-Facilities (UFT) rate schedule. The kilowatt credit shall equal the transmission service over the Delivery facilities used to calculate the

UFT charge. This adjustment shall not reduce the Utility Delivery Charge billing factor below zero.

B. FAILURE TO COMPLY PENALTY

If a party fails to comply with the TBL's curtailment, redispatch, or load shedding orders, the party will be assessed the Failure to Comply Penalty charge.

Parties who are unable to comply with a curtailment, load shedding, or redispatch order due to a force majeure on their system will not be subject to this penalty provided that they immediately notify the TBL of the situation upon occurrence of the force majeure.

1. RATE

The rate shall be the highest of:

- a.** 100 mills per kilowatthour;
- b.** any costs incurred by the TBL in order to manage the reliability of the FCRTS due to the failure to comply;
- c.** an hourly market price index plus 10%.

The hourly market price index will be the larger of the California ISO Ex-Post Supplemental Energy Price or the Dow Jones Mid-Columbia Firm Index Price for the hour(s) when the failure to comply occurred.

2. BILLING FACTORS

The Billing Factor shall be the kilowatthours that were not curtailed or redispatched in any of the following situations:

- a.** Failure to raise generation if chosen as an incremental bidder for redispatch.
- b.** Failure to lower generation if chosen as a decremental bidder for redispatch.
- c.** Failure to shed load when required as specified by the Load Shedding provisions of the Tariff or any other applicable agreement between the parties. This includes failure to respond within the time period specified by NERC, WSCC, or NWPP criteria.
- d.** Failure of a generator in the BPA Control Area or which directly interconnects to the FCRTS to change generation levels when directed

to do so by the TBL. This includes failure to respond within the time period specified by NERC, WSCC, or NWPP criteria.

- e. Failure to curtail a schedule in the time period specified by NERC, WSCC, or NWPP criteria when directed to do so by the TBL.

C. POWER FACTOR PENALTY CHARGE

1. DESCRIPTION OF THE POWER FACTOR PENALTY CHARGE

Any party that is interconnected with the Federal Columbia River Transmission System (FCRTS) shall be charged for its reactive power requirements as described in this section, unless otherwise specified in an agreement existing prior to October 1, 1995.

Each point of interconnection or point of delivery shall be monitored and billed independently for determining the party's total reactive power requirements and all associated billing factors, including the Reactive Deadband. If a party is taking transmission service under multiple rate schedules, the party will pay for its reactive power requirements as if it is taking delivery under only one rate schedule.

2. CONDITIONS FOR APPLICATION OF THE POWER FACTOR PENALTY CHARGE

a. Measured Data

The Power Factor Penalty Charge will apply to only the party's reactive power requirements for which measured data exist.

b. Party's Generating Resource Connected to the FCRTS

Irrespective of the direction of real power flow, the Power Factor Penalty Charge shall apply to points of interconnection where a party's generating resource is directly connected to the FCRTS, *unless* the party's generating resource is either:

- i. a synchronous generator equipped with a voltage regulator, or
- ii. equipped with reactive power control devices that comply with TBL's applicable interconnection standards.

Such resource must actively support the voltage schedule at the point of integration at all times when the resource is in service, as determined by

BPA Transmission Business Line, for this exemption to apply.
Generating resources that do not satisfy the above criteria shall not be exempt from the Power Factor Penalty Charge.

c. Bi-directional Real Power Flow

For points other than those specified in section 2(b), the Power Factor Penalty Charge will *not* be applied, and no new Ratchet Demand for reactive power will be established, at a specific point if the metered real power (on an hourly integrated basis) flows from the party's system to the FCRTS at that point for as little as one hour during the billing period. However, the party will still pay any previously incurred demand ratchet charges. The direction of the real power flow will be determined based on metered quantities, not on scheduled quantities.

d. Service by Transfer

Points of delivery that are served by transfer over another utility's transmission system will *not* be subject to the Power Factor Penalty Charge *unless* there are significant TBL Network facilities between the party's points of delivery and the transferor's system.

e. Specific Points Exempt from the Power Factor Penalty Charge

The Power Factor Penalty Charge will *not* apply to the following points:

Nevada-Oregon Border (NOB)
Big Eddy 500 kV
Big Eddy 230 kV
John Day 500 kV
Malin 500 kV
Captain Jack 500 kV
Garrison 500 kV
Townsend 500 kV

f. Special Circumstances

The party may submit requests to BPA Transmission Business Line for consideration of unique circumstances. BPA Transmission Business Line will evaluate the request and may make arrangements with the party to address the special circumstances.

3. RATE

TBL will bill the party for reactive power at each point each month as follows:

Reactive Demand

\$0.28 per kVAr of lagging reactive demand in excess of the Reactive Deadband during HLH in all months of the year.

\$0.24 per kVAr of leading reactive demand in excess of the Reactive Deadband during LLH in all months of the year.

No charge for leading reactive demand during HLH.

No charge for lagging reactive demand during LLH.

4. BILLING FACTORS

a. Reactive Deadband

The Reactive Deadband (measured in kVAr) is used to determine the Reactive Billing Demand and Ratchet Demand for the Power Factor Penalty Charge.

The Reactive Deadband for each billing period is the maximum hourly integrated metered real power demand (measured in kW) at each point during the billing period multiplied by 25 percent.

The Reactive Deadband for either HLH or LLH:

- i.** is computed once per billing period (the same quantity is used for both HLH and LLH),
- ii.** does not vary during the billing period, and
- iii.** is based on the maximum hourly integrated metered real power demand during that billing period.

b. Reactive Billing Demand

The party's Reactive Billing Demand shall be calculated independently for lagging reactive power and leading reactive power at each point for which a Power Factor Penalty Charge is assessed.

All reactive demands shall be established in the particular HLH or LLH at each point during which the party's maximum applicable reactive demand is placed on TBL, regardless of the time of the real power peak at each point.

All reactive demand at each point shall be established on a non-coincidental basis, regardless of whether the party is billed for real power or transmission at such point on a coincidental or non-coincidental basis, *unless* otherwise specified in the agreement between TBL and the party, *or* coincidental billing is, in TBL's sole determination, more practical for TBL.

There will be separate reactive demands for lagging (HLH) and leading (LLH) demands. The party's Reactive Billing Demand for each point for the billing month shall be the *larger* of:

- i. the largest measured reactive demand in excess of the Reactive Deadband during the billing period, *or*
- ii. the Ratchet Demand for reactive power.

The Ratchet Demand for reactive power is equal to 100 percent of the largest measured reactive demand in excess of the Reactive Deadband during the preceding 11-month period. Each point shall have a separate Ratchet Demand for lagging (HLH) and leading (LLH) reactive demand.

5. ADJUSTMENTS FOR REACTIVE LOSSES

Measured data shall be adjusted for reactive losses, if applicable, before determination of the Reactive Billing Demand.

D. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA §212

If, after review by FERC, the NT, NCD, PTP, IS, or IM rate schedule, as initially submitted to FERC, is modified to satisfy the standards of section 212(i)(1)(B)(ii) of the Federal Power Act (16 U.S.C. §824k(i)(1)(B)(ii)) for FERC-ordered transmission service, then such modifications shall automatically apply to the rate schedule for non-section 212(i)(1)(B)(ii) transmission service. The modifications for non-section 212(i)(1)(B)(ii) transmission service, as described above, shall be effective, however, only prospectively from the date of the final FERC order granting final approval of the rate schedule for FERC-ordered transmission service pursuant to section 212(i)(1)(B)(ii). No refunds shall be made or additional costs charged as a consequence of this prospective modification for any non-section 212(i)(1)(B)(ii) transmission service that occurred under the rate schedule prior to the effective date of such prospective modification.

E. REDISPATCH ADJUSTMENT FOR ACCEPTED BIDS

When the TBL implements redispatch procedures pursuant to the Open Access Transmission Tariff, the party submitting a bid that is accepted for redispatch shall receive a credit or charge for such accepted bid. The amount of the credit or charge shall be based on the incremental or decremental bid, respectively, submitted by the party and the amount of power redispatched. The credit or charge shall appear on the party's monthly transmission bill. If a credit is due to a party not taking other transmission services, TBL will pay the party for such redispatch within 30 days following the end of the month that the redispatch occurred.

F. REDISPATCH CHARGE

For each hour that TBL implements redispatch procedures pursuant to the Open Access Transmission Tariff (Tariff), all NT and NCD Transmission Customers using the congested path during the hour(s) that redispatch is implemented shall be subject to the Redispatch Charge.

1. RATE

For each hour and each congested transmission path that TBL implements redispatch procedures pursuant to the open access transmission tariff, the rate shall be:

$$\frac{\text{REDISPATCH COST}}{\text{Total NT/NCD Transmission Usage of Congested Path}}$$

where:

“Redispatch Cost” is the hourly net cost in dollars incurred by TBL to implement redispatch procedures.

“Total NT/NCD Customer Usage of Congested Path” is the total NT and NCD Transmission Customers’ hourly use in megawatts of the congested transmission path.

2. BILLING FACTORS

For each hour and constrained transmission path that redispatch procedures are implemented, the Billing Factor shall be the NT or NCD Transmission Customer’s use in megawatts of the congested path.

G. RESERVATION FEE

The Reservation Fee shall be charged to PTP and NCD customers electing to postpone the commencement of service pursuant to sections 29.5 or 38.7 of the Open Access Transmission Tariff.

The Reservation Fee shall be a nonrefundable fee equal to one month’s charge for the requested firm transmission service for each year or fraction of a year for which the customer chooses to postpone service. The Reservation Fee for the first year shall be paid in a lump sum within 30 days of the date the agreement is executed, and, for

subsequent years, within 30 days of the anniversary date of execution of the agreement. The Reservation Fee shall be assessed annually until transmission service begins or the reservation period ends, whichever occurs first. The Reservation Fee shall be specified in the executed agreement for transmission service.

H. TRANSMISSION AND ANCILLARY SERVICES RATE DISCOUNTS

TBL may offer discounted rates for transmission and ancillary services available under the Open Access Transmission Tariff and to the extent provided for in the specific rate schedule. Any offer of a discount for transmission services or for ancillary services in support of basic transmission services must be announced to all potential customers solely by posting on the OASIS. Any customer-initiated requests for such discounts must occur solely by posting on the OASIS. Once TBL and a Transmission Customer agree to a discounted transaction, the details shall be immediately posted on the OASIS. If TBL offers a transmission service discount on a particular path, it shall offer the same discount for the same time period on all unconstrained paths that go to the same point(s) of delivery on TBL's system. If TBL offers an ancillary service discount, it shall offer the same discount for the same time period to all eligible customers on TBL's system.

SECTION III. DEFINITIONS

1. Ancillary Services

Ancillary Services are those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of TBL's Transmission System in accordance with Good Utility Practice. Ancillary Services include: Scheduling, System Control and Dispatch; Reactive Supply and Voltage Control from Generation Sources; Regulation and Frequency Response; Energy Imbalance; Operating Reserve – Spinning; and Operating Reserve -- Supplemental. Ancillary Services are available under the ACS-02 rate schedule.

2. Billing Factor

The *Billing Factor* is the quantity to which the charge specified in the rate schedule is applied. When the rate schedule includes charges for several products, there may be a Billing Factor for each product.

3. Control Area

A *Control Area* is an electric power system or combination of electric power systems to which a common automatic generation control scheme is applied in order to:

- (1) match, at all times, the power output of the generators within the electric power system(s) and capacity and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s);
- (2) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
- (3) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and
- (4) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

4. Control Area Services

Control Area Services are available to meet the Reliability Obligations of a party with resources or loads in the BPA Control Area. A party that is not satisfying all of its Reliability Obligations through the purchase or self-provision of Ancillary Services may purchase Control Area Services to meet its Reliability Obligations. Control Area Services are also available to parties with resources or loads in the BPA Control Area that have Reliability Obligations, but do not have a transmission agreement with TBL. Reliability Obligations for resources or loads in the BPA Control Area are determined by applying the North American Electric Reliability Council (NERC), Western Systems Coordinating Council (WSCC), and the Northwest Power Pool (NWPP) reliability criteria. Control Area Services, include, without limitation:

- a. Regulation and Frequency Response Service
- b. Generation Imbalance Service
- c. Operating Reserve – Spinning Reserve Service
- d. Operating Reserve – Supplemental Reserve Service
- e. Other Control Area services.

5. Daily Firm Service

Daily Firm Service is firm transmission service under Part II of the Open Access Transmission Tariff in consecutive daily increments of one day or greater but less than one year.

6. Daily Nonfirm Service

Daily Nonfirm Service is nonfirm transmission service under Part II of the Open Access Transmission Tariff in consecutive daily increments of one day or greater but less than or equal to 31 days.

7. Direct Assignment Facilities

Facilities or portions of facilities that have been or are constructed by the TBL for the sole use and benefit of a particular Transmission Customer requesting service under the Open Access Transmission Tariff, the costs of which may be directly assigned to the Transmission Customer in accordance with applicable Federal Energy Regulatory Commission policy. Direct Assignment Facilities shall be specified in the agreement that governs service to the Transmission Customer.

8. Direct Service Industry (DSI) Delivery

The *DSI Delivery* segment is the segment of the FCRTS that provides service to DSI customers at voltages of 34.5 kV and below.

9. Dynamic Schedule

A *Dynamic Schedule* is a telemeter reading or value which is updated in real time and which is used as a schedule in the Automatic Generation Control (AGC) and Area Control Error (ACE) equation of the TBL and the integrated value of which is treated as a schedule for interchange accounting purposes. One way Dynamic Schedules are

commonly used for scheduling remote generation or remote load to or from another Control Area. Two-way Dynamic Schedules are commonly used to provide supplemental regulation or operating reserve support from one entity to another, usually between Control Areas. The Receiving Party sends the Delivering Party a requested Dynamic Schedule (the first part of the two-way schedule). The Delivering Party then responds with the official Dynamic Schedule of what actually is delivered to the Receiving Party (the second part of the two-way schedule).

10. Eastern Intertie

The *Eastern Intertie* is the segment of the Federal Columbia River Transmission System (FCRTS) for which the transmission facilities consist of the Townsend-Garrison double-circuit 500 kV transmission line segment, including related terminals at Garrison.

11. Energy Imbalance Service

Energy Imbalance Service is provided when a difference occurs between the scheduled and the actual delivery of energy over a single hour to a load located within the BPA Control Area. The TBL must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from the TBL or make alternative comparable arrangements specified in the Transmission Customer's Service Agreement to satisfy its Energy Imbalance Service obligation.

12. Federal Columbia River Transmission System

The *Federal Columbia River Transmission System* (FCRTS) is the transmission facilities of the Federal Columbia River Power System, which include all transmission facilities owned by the government and operated by TBL, and other facilities over which TBL has obtained transmission rights.

13. Federal System

The *Federal System* is the generating facilities of the Federal Columbia River Power System, including the Federal generating facilities for which BPA is designated as marketing agent; the Federal facilities under the jurisdiction of BPA; and any other facilities:

- a. from which BPA receives all or a portion of the generating capability (other than station service) for use in meeting BPA's loads to the extent BPA has the right to receive such capability. "BPA's loads" do not include any of the loads of any BPA customer that are served by a non-Federal

generating resource purchased or owned directly by such customer which may be scheduled by BPA;

- b. which BPA may use under contract or license; or
- c. to the extent of the rights acquired by BPA pursuant to the 1961 U.S.-Canada Treaty relating to the cooperative development of water resources of the Columbia River Basin.

14. Generation Imbalance

Generation Imbalance is the difference between the hourly scheduled amount and actual delivered amount of energy from a generation resource in the BPA Control Area.

15. Generation Imbalance Service

Generation Imbalance Service is taken when there is a difference between scheduled and actual energy delivered from generation resources in the BPA Control Area during a schedule hour.

16. Heavy Load Hours (HLH)

Heavy Load Hours (HLH) are all those hours in the peak period: hour ending 7 a.m. to the hour ending 10 p.m., Monday through Saturday, Pacific Prevailing Time (Pacific Standard Time or Pacific Daylight Time, as applicable). There are no exceptions to this definition; that is, it does not matter whether the day is a normal working day or a holiday.

17. Hourly Firm Service

Hourly Firm Service is firm transmission service under Part II of the Open Access Transmission Tariff in consecutive hourly increments.

18. Hourly Nonfirm Service

Hourly Nonfirm Service is nonfirm transmission service under Part II of the Open Access Transmission Tariff in hourly increments.

19. Integrated Demand

Integrated Demand is the quantity derived by mathematically “integrating” kilowatthour deliveries over a 60-minute period. For one-way dynamic schedules, demand is integrated on a rolling ten-minute basis.

20. Intentional Deviation

BPA, in its sole determination, may find that an *Intentional Deviation* exists if:

- a) a deviation is persistent during multiple consecutive hours or at specific times of the day;
- b) a pattern of under-delivery or over-use of energy occurs; or
- c) persistent over-generation or under-use during LLH, particularly when the customer does not respond by adjusting schedules for future days to correct these patterns.

21. Light Load Hours (LLH)

Light Load Hours (LLH) are all those hours in the offpeak period: hour ending 11 p.m. to hour ending 6 a.m. Monday through Saturday and all hours Sunday, Pacific Prevailing Time (Pacific Standard Time or Pacific Daylight Time, as applicable).

22. Long-Term Firm Service

Long-Term Firm Service is Firm Transmission service under Part II of the Open Access Transmission Tariff with a term of one year or more.

23. Main Grid

As used in the FPT rate schedule, the *Main Grid* is that portion of the Network facilities with an operating voltage of 230 kV or more.

24. Main Grid Distance

As used in the FPT rate schedules, *Main Grid Distance* is the distance in airline miles on the Main Grid between the Point of Integration (POI) and the Point of Delivery (POD), multiplied by 1.15.

25. Main Grid Interconnection Terminal

As used in the FPT rate schedules, *Main Grid Interconnection Terminal* refers to Main Grid terminal facilities that interconnect the FCRTS with non-TBL facilities.

26. Main Grid Miscellaneous Facilities

As used in the FPT rate schedules, *Main Grid Miscellaneous Facilities* refers to switching, transformation, and other facilities of the Main Grid not included in other components.

27. Main Grid Terminal

As used in the FPT rate schedules, *Main Grid Terminal* refers to the Main Grid terminal facilities located at the sending and/or receiving end of a line, exclusive of the Interconnection terminals.

28. Measured Demand

The *Measured Demand* is that portion of the customer's Metered or Scheduled Demand for transmission service from TBL under the applicable transmission rate schedule. If transmission service to a point of delivery, or from a point of receipt, is provided under more than one rate schedule, the portion of the measured quantities assigned to any rate schedule shall be as specified by contract. The portion of the total Measured Demand so assigned shall be the Measured Demand for transmission service for each transmission rate schedule.

29. Metered Demand

Except for dynamic schedules, the *Metered Demand* in kilowatts shall be the largest of the 60-minute clock-hour Integrated Demands at which electric energy is delivered (received) for a transmission customer:

- a. at each point of delivery (receipt) for which the Metered Demand is the basis for the determination of the Measured Demand;
- b. during each time period specified in the applicable rate schedule; and
- c. during any billing period.

Such largest Integrated Demand shall be determined from measurements made in accord with the provisions of the applicable contract and these GRSPs. This amount shall be adjusted as provided herein and in the applicable agreement between TBL and the customer.

For dynamic schedules, the Metered Demand in kilowatts shall be the largest 10 minute moving average of the load (generation) at the point of delivery (receipt). The 10 minute moving average shall be assigned to the hour in which the 10 minute period ends.

30. Montana Intertie

The *Montana Intertie* is the double-circuit 500 kV transmission line and associated substation facilities from Broadview Substation to Garrison Substation.

31. Monthly Transmission Peak Load

Monthly Transmission Peak Load is the peak loading on the Federal transmission system during any hour of the designated billing month, determined by the largest hourly integrated demand produced from the sum of Federal and non-Federal generating plants in BPA's Control Area and metered flow into BPA's Control Area.

32. Network (or Integrated Network)

The *Network* is the segment of the Federal Columbia River Transmission System (FCRTS) for which the transmission facilities provide the bulk of transmission of electric power within the Pacific Northwest.

33. Network Load

Network Load is the load that a Network Integration Customer designates for Network Integration Transmission Service under Part III of the Open Access Transmission Tariff (Tariff). The Network Integration Customer's Network Load shall include all Network Load served by the output of any Network Resources designated by the Network Integration Customer. A Network Integration Customer may elect to designate less than its total load as Network Load but may not designate only part of the load as Network Load at a discrete Point of Delivery. Where a Network Integration Customer has elected not to designate a particular load at discrete Points of Delivery as Network Load, the Network Integration Customer is responsible for making separate arrangements under Part II or Part IV of the Tariff that may be necessary for such non-designated load.

34. Network Upgrades

Network Upgrades are modifications or additions to transmission-related facilities that are integrated with and support the TBL's overall Transmission System for the general benefit of all users of such Transmission System.

35. Nonfirm Service

Nonfirm Service is Daily Nonfirm and Hourly Nonfirm Service under Part II of the Open Access Transmission Tariff

36. Operating Reserve -- Spinning Reserve Service

Operating Reserve -- Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. Spinning Reserve Service may be provided by

generating units that are on-line and loaded at less than maximum output. The TBL must offer this service when the transmission service is provided to load served by generation located in the BPA Control Area. The Transmission or Control Area Service Customer must either purchase this service from the TBL or make alternative comparable arrangements to satisfy its Spinning Reserve Service obligation. The Transmission or Control Area Service Customer's obligation is determined consistent with North American Electric Reliability Council (NERC), Western Systems Coordinating Council (WSCC) and Northwest Power Pool (NWPP) criteria.

37. Operating Reserve – Supplemental Reserve Service

Operating Reserve – Supplemental Reserve Service is needed to serve load in the event of a system contingency; however, it is not available immediately to serve load but rather within a short period of time. Supplemental Reserve Service may be provided by generating units that are on-line but unloaded, by quick-start generation or by interruptible load. The TBL must offer this service when the transmission service is provided to load served by generation located in the BPA Control Area. The Transmission or Control Area Service Customer must either purchase this service from the TBL or make alternative comparable arrangements to satisfy its Supplemental Reserve Service obligation. The Transmission Customer's obligation is determined consistent with North American Electric Reliability Council (NERC), Western Systems Coordinating Council (WSCC) and Northwest Power Pool criteria.

38. Operating Reserve Requirement

Operating Reserve Requirement is a party's total reserve obligation to the BPA Control Area. A party is responsible for purchasing or otherwise providing Operating Reserves associated with its transactions which impose a reserve obligation on the BPA Control Area. Operating Reserve Requirement is composed of two parts: regulating reserve obligation and contingency reserve obligation.

A party's regulating reserve obligation is met by purchasing Regulation and Frequency Response Service. The contingency reserve obligation is satisfied by purchasing or otherwise providing Operating Reserve - Spinning Reserve Service and Operating Reserve - Supplemental Reserve Service.

The specific amounts required are determined consistent with North American Electric Reliability Council (NERC) Policies, the Northwest Power Pool (NWPP) Operating Manual, "Contingency Reserve Sharing Procedure," and the Western Systems Coordinating Council (WSCC) "Minimum Operating Reliability Criteria" (MORC).

39. Point of Delivery (POD)

Point(s) on the TBL's Transmission System, or transfer points on other utility systems pursuant to Section 15.3 of the Open Access Transmission Tariff (Tariff), where capacity and energy transmitted by the TBL will be made available to the Receiving Party under Parts II, III, or IV of the Tariff or to the Transmission Customer under other BPA transmission service agreements.

40. Point of Integration (POI)

A *Point of Integration* is the contractual interconnection point where power is received from the customer. Typically, a point of integration is located at a resource site, but it could be located at some other interconnection point.

41. Point of Interconnection (POI)

A *Point of Interconnection* is a point where the facilities of two entities are interconnected. This term has the same meaning as "Point of Integration" and "Point of Receipt" in certain pre-Open Access Transmission Tariff service agreements.

42. Point of Receipt (POR)

Point(s) of Receipt are the point(s) of interconnection on the TBL's Transmission System where capacity and energy will be made available to the TBL by the Delivering Party under Parts II, III, or IV of the Open Access Transmission Tariff. The Point(s) of Receipt shall be specified in the Service Agreement.

43. Ratchet Demand

The *Ratchet Demand* in kilowatts or kilovars is the maximum demand established during a specified period of time either during, or prior to, the current billing period. The Ratchet Demand shall be the maximum demand established during the previous 11 billing months. If a Transmission Demand has been decreased pursuant to the terms of the transmission agreement during the previous 11 billing months, such decrease will be reflected in determining the Ratchet Demand. The Ratchet Demand for reactive power is defined in the Power Factor Penalty Charge at section II.C of these GRSPs.

44. Reactive Power

Reactive Power is the out-of-phase component of the total voltamperes in an electric circuit. Reactive Power has two components: reactive demand (expressed in kilovars or kVAr) and reactive energy (expressed in kilovarhours or kVArh).

45. Reactive Supply and Voltage Control from Generation Sources Service

Reactive Supply and Voltage Control from Generation Sources Service is required to maintain voltage levels on the TBL's transmission facilities within acceptable limits. In order to maintain transmission voltages on the TBL's transmission facilities within acceptable limits, generation facilities (in the Control Area where the TBL's transmission facilities are located) are operated to produce (or absorb) reactive power. Thus, Reactive Supply and Voltage Control from Generation Sources Service must be provided for each transaction on the TBL's transmission facilities. The amount of Reactive Supply and Voltage Control from Generation Sources Service that must be supplied with respect to the Transmission Customer's transaction will be determined based on the reactive power support necessary to maintain transmission voltages within limits that are generally accepted in the region and consistently adhered to by the TBL. The Transmission Customer must purchase this service from the TBL.

46. Regulation and Frequency Response Service

Regulation and Frequency Response Service is necessary to provide for the continuous balancing of resources (generation and interchange) with load and for maintaining scheduled Interconnection frequency at sixty cycles per second (60 Hz). Regulation and Frequency Response Service is accomplished by committing on-line generation whose output is raised or lowered (predominantly through the use of automatic generating control equipment) as necessary to follow the moment-by-moment changes in load. The obligation to maintain this balance between resources and load lies with the TBL. The TBL must offer this service when the transmission service is used to serve load within the BPA Control Area. The Transmission Customer must either purchase this service from the TBL or make alternative comparable arrangements to satisfy its Regulation and Frequency Response Service obligation.

47. Reliability Obligations

Reliability Obligations are the obligations for reliability-based services that a party with resources or loads in the BPA Control Area must provide in order to meet minimum reliability standards. Reliability Obligations shall be determined consistent with applicable North American Electric Reliability Council (NERC), Western Systems Coordinating Council (WSCC), and Northwest Power Pool (NWPP) standards. TBL

offers Ancillary Services and Control Area Services to allow resources or loads to meet their Reliability Obligations.

48. Scheduled Demand

Scheduled Demand is the hourly demand at which electric energy is scheduled for transmission on the FCRTS.

49. Scheduling, System Control and Dispatch Service

Scheduling, System Control and Dispatch Service is required to schedule the movement of power through, out of, within, or into a Control Area. This service can be provided only by the operator of the Control Area in which the transmission facilities used for transmission service are located. Scheduling, System Control and Dispatch Service is to be provided directly by the TBL (if the TBL is the Control Area operator) or indirectly by the TBL making arrangements with the Control Area operator that performs this service for the TBL's Transmission System. The Transmission Customer must purchase this service from the TBL or the Control Area operator.

50. Secondary System

As used in the FPT rate schedules, *Secondary System* is that portion of the Network facilities with an operating voltage between 69 kV to less than 230 kV.

51. Secondary System Distance

As used in the FPT rate schedules, *Secondary System Distance* is the number of circuit miles of Secondary System transmission lines between the secondary Point of Integration and either the Main Grid or the secondary Point of Delivery (POD), or between the Main Grid and the secondary POD.

52. Secondary System Interconnection Terminal

As used in the FPT rate schedules, *Secondary System Interconnection Terminal* refers to the terminal facilities on the Secondary System that interconnect the FCRTS with non-TBL facilities.

53. Secondary System Intermediate Terminal

As used in the FPT rate schedules, *Secondary System Intermediate Terminal* refers to the first and final terminal facilities in the Secondary System transmission path, exclusive of the Secondary System Interconnection terminals.

54. Secondary Transformation

As used in the FPT rate schedules, *Secondary Transformation* refers to transformation from Main Grid to Secondary System facilities.

55. Short-Term Firm Service

Short-Term Firm Service is Daily Firm and Hourly Firm Transmission Service under Part II of the Open Access Transmission Tariff.

56. Southern Intertie

The *Southern Intertie* is the segment of the FCRTS that includes, but is not limited to, the major transmission facilities consisting of two 500 kV AC lines from John Day Substation to the Oregon-California border; a portion of the 500 kV AC line from Buckley Substation to Summer Lake Substation; and the 500 kV AC Intertie facilities, which include Captain Jack Substation, the Alvey-Meridian AC line, one 1,000 kV DC line between the Celilo Substation and the Oregon-Nevada border, and associated substation facilities.

57. Spill Condition

Spill Condition, for the purpose of determining credit or payment for Deviations under the Energy Imbalance and Generation Imbalance rates, exists when any one or more of the following conditions exist or events occur on the BPA system: high flows and full reservoirs; flood control implementation; spill priority implementation procedures; spill due to lack of Federal load; spill past unloaded turbines; minimum generation requirements; increased spill due to storage; BPA is not accepting Coordination storage due to lack of storage or a specified flow requirement. Discretionary spill, where BPA may choose whether to spill does not constitute a Spill Condition.

58. Spinning Reserve Requirement

Spinning Reserve Requirement is a portion of a party's Operating Reserve Requirement to the BPA Control Area. A party is responsible for purchasing or otherwise providing Operating Reserve - Spinning Reserve Service associated with its transactions which impose a reserve obligation on the BPA Control Area.

The specific amounts required are determined consistent with North American Electric Reliability Council (NERC) Policies, the Northwest Power Pool (NWPP) Operating Manual, "Contingency Reserve Sharing Procedure," and the Western Systems Coordinating Council (WSCC) "Minimum Operating Reliability Criteria" (MORC).

59. Supplemental Reserve Requirement

Supplemental Reserve Requirement is a portion of a party's Operating Reserve Requirement to the BPA Control Area. A party is responsible for purchasing or otherwise providing Operating Reserve – Supplemental Reserve Service associated with its transactions which impose a reserve obligation on the BPA Control Area.

The specific amounts required are determined consistent with North American Electric Reliability Council (NERC) Policies, the Northwest Power Pool (NWPP) Operating Manual, "Contingency Reserve Sharing Procedure," and the Western Systems Coordinating Council (WSCC) "Minimum Operating Reliability Criteria" (MORC).

60. Total Transmission Demand

Total Transmission Demand is the sum of all the transmission demands as defined in the applicable agreement.

61. Transmission Customer

A *Transmission Customer* is an entity that (a) has executed a Service Agreement under the Open Access Transmission Tariff; (b) receives transmission service under section 17.2 of the Open Access Transmission Tariff; or (c) has executed any other transmission agreement with the TBL.

62. Transmission Demand

Transmission Demand is the maximum amount of capacity, energy, and/or required Ancillary Services that the TBL agrees to transmit for the Transmission Customer over the TBL's Transmission System between the Point(s) of Receipt or Network Resources and the Point(s) of Delivery under Parts II or IV of the Open Access Transmission Tariff. The Transmission Demand shall be expressed in terms of: (a) a demand in whole megawatts on a sixty-minute (60) interval (commencing on the clock hour) basis except in cases where Dynamic Schedules are involved; (b) a demand equal to the largest ten-minute (10) moving average of the load or generation expected to occur during the contract period for one-way Dynamic Schedules used to transfer generation or load from one Control Area to another Control Area; or (c) a demand equal to the instantaneous peak demand, for each direction, of the supplemental Control Area service request expected to occur during the contract period for two-way Dynamic Transfers, used to provide supplemental Control Area services. The supplemental Control Area service response shall always be the lesser of the Control Area service request or the Transmission Demand associated with the supplemental Control Area service.

63. Transmission Provider

The Bonneville Power Administration's Transmission Business Line (TBL) that owns, controls, or operates facilities used for the transmission of electric energy in interstate commerce and provides transmission service under the Open Access Transmission Tariff and other agreements. This excludes the Merchant Function.

64. Utility Delivery

The *Utility Delivery* segment is that segment of the FCRTS that provides service to utility customers at voltages below 34.5 kV.